higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

PLANT AND EQUIPMENT
NQF LEVEL 2

20 November 2024

This marking guideline consists of 5 pages.

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QUESTION 1

1.1
- Equipment will last longer✓
- Defective equipment may be hazardous to staff✓
- Enhance safety✓
- Increase resale value of the equipment✓
- Efficiency of the equipment is maintained✓
- Lower operating costs✓
- Increase reliability✓
- Run-to-breakdown maintenance✓
- Condition-based maintenance✓
- Preventative maintenance✓

(Any 3 × 1) (3)

1.2
- Stone age✓
- Copper and bronze age✓
- Iron age✓

(Any 2 × 1) (2)
[5]

QUESTION 2

2.1
- Injury to workers✓
- Bumping against badly packed materials✓
- Having fires on site✓
- Slipping on wet, greasy or dirty floors✓
- Tripping over loose objects✓

(5)

2.2
- The Act covers workers who are involved with the planning,✓ layout, construction, use, alteration, repair, maintenance or demolition of buildings.✓
- The Act covers workers who use plant,✓ machinery and other equipment.✓

(2 × 2) (4)

2.3
- Term of reference ✓
- Procedure✓
- Findings✓
- Conclusion✓
- Recommendations✓

(5)

2.4 Safe Erection Method Statement✓ (1)
[15]

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QUESTION 3

3.1 3.1.1 True
3.1.2 True
3.1.3 False
3.1.4 True
3.1.5 False

(5 × 1) (5)

3.2
- Extend the arm closest to you over the person's head.✓
- Tuck the person's other arm against his/her side.✓
- Cross the injured person's foot farthest from you, over the foot closest to you.✓
- Support the injured person's head and neck.✓
- Position the injured person so that you can give the first aid.✓ (5)

3.3
- Ambulance services✓
- Firefighters✓
- Hospital emergency departments✓
- Ambulance officers✓
- Paramedics✓
- South African Police Services ✓ (Any 5 × 1) (5)

[15]

QUESTION 4

4.1 4.1.1 A trade is a skilled job,✓ usually one requiring manual skill and special training.✓

4.1.2 Mortar is a mixture of sand, water and cement that becomes hard like stone✓ and is used to join and hold bricks together.✓

4.1.3 A polygon is an object with five sides✓ and each side has the same length.✓

(3 × 2) (6)

4.2 4.2.1
- Do not drop or bump a spirit level.✓
- Always keep the vial clean.✓
- Wipe it down with a damp cloth and dry it after using it.

(Any 2 × 1)

4.2.2
- Do not damage the measuring edges.✓
- Keep the vernier free from dust and other dirt.✓
- Wipe it down with an oiled cloth once a week. (Any 2 × 1)

4.2.3
- Scrape off the mortar with a wire brush.✓
- Wash in clean water and dry it thoroughly to prevent rust.✓

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4.2.4
- Always wash a wheelbarrow after using it.✓
- Wash it in an upright position with its handles facing upwards.✓
- Never throw rocks or masonry units into a wheelbarrow from a big height. (Any 2 × 1)

4.2.5
- Never drop it. ✓
- Always wipe it down after you have used it. ✓
- Oil the movable parts lightly on a regular basis. (Any 2 × 1)

(5 × 2) (10)

4.3
- Bricklayer's trowel✓
- Pointing trowel✓
- Gauging trowel✓ (3)

4.4
- Put a little oil on the sharpening stone.✓
- Gently slide the blade across the oil.✓
- This will spread the oil and it will give you a feel for the angle of the blade.✓
- Lift the blade by 5 degrees.✓
- Put slight pressure on the blade and move it up and down across the length of the stone.✓
- Keep the pressure on the blade the same all the time.✓
- Check the blade every now and again to see if shiny new metal is showing.✓
- Run your hand down the back of the blade.✓
- Place the back of the blade flat on the oil stone.✓
- Move it up and down a number of times.✓ (10)

4.5 High-speed steel (1)

[30]

QUESTION 5

5.1
- The ladder must at least be 1 m above the top workface.✓
- Lash the stiles to the workface.✓
- Put the top of the stiles against a solid support.✓ (3)

5.2
- The ladder can move sideways along the wall. ✓
- The ladder can topple over sideways. ✓
- You can lose your balance and accidentally push against the wall. ✓
- You can lose your balance in an attempt to regain your balance. ✓
- You can lose your balance and fall off the ladder. ✓ (5)

5.3
- A builder's hoist is a mechanical device✓
- that can be used to lift heavy tools and materials to a high workface.✓ (2)

[10]

QUESTION 6

6.1
- Basic supervisory skills✓
- Team leadership skills✓
- Communication skills✓
- Counselling for performance of team leaders✓
- Disciplinary method and procedures✓
- Organisation of work for optimum productivity✓
- Sufficient knowledge of the OHS Act to ensure teamwork safety✓
- Final checking of work before submitting for inspection✓ (8)

6.2
- Standards✓
- Toe boards✓
- Ledgers✓
- Transoms✓
- Guardrails✓
- Base plate✓
- Couplers✓
- Boarding✓
- Bracings✓
- Working platform✓
- Double Coupler✓
- Cross bracing✓
- Swivel coupler✓
- Putlog clip✓ (Any 6 × 1) (6)

6.3
- Always visually inspect the parts of a builder's trestle working platform before you erect the working platform.✓
- Do not attempt to use any defective parts.✓
- If any part is damaged get a replacement from the supplier.✓ (3)

6.4
- The ground must be level.✓
- The ground on which a tower is moved has to be able to support the weight of the tower.✓
- Never move a tower at a fast speed but rather keep to a walking speed.✓
- A tower can only be moved by hands not by machines.✓
- No one must be on the tower when it is being moved. (Any 4 × 1) (4)

6.5 6.5.1
- A mobile tower is scaffolding✓ that is erected on wheels so that it can be moved easily from place to place.✓

6.5.2
- A handover certificate is a certificate✓ that the person in charge of erecting the scaffolding gives or hands over to the construction site supervisor.✓

(2 × 2) (4)

[25]

TOTAL: 100

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